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PATENT & TRADEMARK OFFICE

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FORM PTO-1449			ATTY. DOCKET NO. 1646.131000AEKS/EJH/M-M	APPLICATION NO. 10/005,842			
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT & TRADEMARK SEARCH			FIRST NAMED INVENTOR Ni et al.				
			FILING DATE December 7, 2001	ART UNIT 1646			
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA						
AB2	6,743,625	06/01/2004	Ni et al.			06/06/2001
AC2	6,461,823	10/08/2002	Ni et al.			11/24/1999
AD2	6,342,363	01/29/2002	Ni et al.			01/27/1998
AE2	6,433,147	08/13/2002	Ni et al.			05/05/2000
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
CL	WO 98/41629 A2 & A3	09/24/1998	WIPO PCT			Yes	
	AM4	EP 1 181 319 A0	12/07/2000	Europe		No	
✓	AN4	EP 1 192 185 A0	12/14/2000	Europe		Yes	
✓	AO4	EP 1 287 035 A1	03/05/2003	Europe		No	
	AP					Yes	
						No	

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✓	AR	15	Allison, J., et al., "Transgenic expression of CD95 ligand on islet β cells induces a granulocytic infiltration but does not confer immune privilege upon islet allografts," <i>Proc. Natl. Acad. Sci. USA</i> 94:3943-3947, National Academy Press (April 1997)
✓	AS	15	Allison, J., and Strasser, A., "Mechanisms of β cell death in diabetes: A minor role for CD95," <i>Proc. Natl. Acad. Sci. USA</i> 95:13818-13822, National Academy Press (November 1998)
✓	AT	15	Bodmer, J.-L., et al., "TRAMP, a Novel Apoptosis-Mediating Receptor with Sequence Homology to Tumor Necrosis Factor Receptor 1 and Fas(Apo-1/CD95)," <i>Immunity</i> 6:79-88, Cell Press (January 1997)

EXAMINER <i>Chen Th</i>	DATE CONSIDERED 01/21/06
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

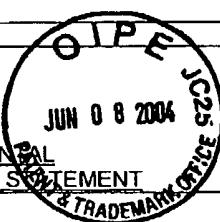
<i>Cu</i>	AR	16	Boldin, M.P., et al., "A Novel Protein That Interacts with the Death Domain of Fas/APO1 Contains a Sequence Motif Related to the Death Domain," <i>J. Biol. Chem.</i> 270:7795-7798, American Society for Biochemistry and Molecular Biology, Inc. (1995)
<i>↓</i>	AS	16	Chicheportiche, Y., et al., "TWEAK, a New Secreted Ligand in the Tumor Necrosis Factor Family That Weakly Induces Apoptosis," <i>J. Biol. Chem.</i> 272:32401-32410, American Society for Biochemistry and Molecular Biology, Inc. (December 1997)
<i>↓</i> <i>a</i>	AT	16	Chinnaiyan, A.M., et al., "FADD, a Novel Death Domain-Containing Protein, Interacts with the Death Domain of Fas and Initiates Apoptosis," <i>Cell</i> 81:505-512, Cell Press (1995)

EXAMINER	<i>Chen M. B.</i>	DATE CONSIDERED
		<i>8/2/04</i>

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Clu</i>	AR	<u>17</u>	Clerici, M., et al., "Type 1 and Type 2 Cytokines in HIV Infection - A Possible Role in Apoptosis and Disease Progression," <i>Ann. Med.</i> 29:185-188, Finnish Medical Society DUODECIM (June 1997)
<i>Clu</i>	AS	<u>17</u>	Degli-Esposti, M.A., et al., "Cloning and Characterization of TRAIL-R3, a Novel Member of the Emerging TRAIL Receptor Family," <i>J. Exp. Med.</i> 186:1165-11170, Rockefeller University Press (October 1997)
<i>Clu</i>	AT	<u>17</u>	Degli-Esposti, M.A., et al., "The Novel Receptor TRAIL-R4 Induces NF- κ B and Protects against TRAIL-Mediated Apoptosis, yet Retains an Incomplete Death Domain," <i>Immunity</i> 7:813-820, Cell Press (December 1997)

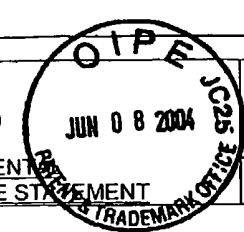
EXAMINER *Clu M. b* DATE CONSIDERED *8/2/04*

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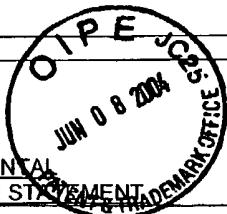
<i>Cur</i>	AR	<u>18</u>	Duan, H. and Dixit, V.M., "RAIDD is a new 'death' adaptor molecule," <i>Nature</i> 385:86-89, Macmillan Publishers, Ltd. (January 1997)
	AS	<u>18</u>	Frankfurt, O.S., et al., "Protection from Apoptotic Cell Death by Interleukin-4 is Increased in Previously Treated Chronic Lymphocytic Leukemia Patients," <i>Leuk. Res.</i> 21:9-16, Elsevier Science, Ltd (January 1997)
<i>Cur</i>	AT	<u>18</u>	Gooch, J.L., et al., "Interleukin 4 Inhibits Growth and Induces Apoptosis in Human Breast Cancer Cells," <i>Cancer Res.</i> 58:4199-4205, American Association for Cancer Research (September 1998)

EXAMINER *John M. Kelly* DATE CONSIDERED *6/2/04*

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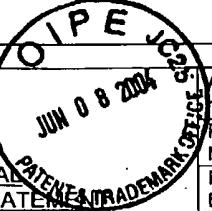
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<i>Am</i>	AR	<u>19</u>	Grell, M., et al., "Induction of cell death by tumour necrosis factor (TNF) receptor 2, CD40 and CD30: a role for TNF-R1 activation by endogenous membrane-anchored TNF," <i>EMBO J.</i> 18:3034-3043, Oxford University Press (June 1999)
<i>Am</i>	AS	<u>19</u>	Hardiman, G., et al., "Genetic Structure and Chromosomal Mapping of MyD88," <i>Genomics</i> 45:332-339, Academic Press (October 1997)
<i>Am</i>	AT	<u>19</u>	Hildeman, D.A., et al., "Activated T Cell Death In Vivo Mediated by Proapoptotic Bcl-2 Family Member Bim," <i>Immunity</i> 16:759-767, Cell Press (June 2002)

EXAMINER	<i>Am M Kef</i>	DATE CONSIDERED
		<i>8/2/04</i>

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<i>cur</i>	AR	<u>20</u>	Hill, M.E., et al., "Prognostic Significance of BCL-2 Expression and <i>bcl-2</i> Major Breakpoint Region Rearrangement in Diffuse Large Cell Non-Hodgkin's Lymphoma: A British National Lymphoma Investigation Study," <i>Blood</i> 88:1046-105, American Society of Hematology (August 1996)
<i>cur</i>	AS	<u>20</u>	Ho, Y.S., et al., "Brain acetylhydrolase that inactivates platelet-activating factor is a G-protein-like trimer," <i>Nature</i> 385:89-93, Macmillan Publishers, Ltd. (January 1997)
<i>cur</i>	AT	<u>20</u>	Hofmann, K., and Bucher, P., "The CARD domain: a new apoptotic signalling motif," <i>Trends Biochem. Sci.</i> 22:155-156, Elsevier Science, Ltd. (May 1997)

EXAMINER <i>Chris M. Kelly</i>	DATE CONSIDERED <i>2/2/04</i>
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<i>an</i>	AR	<u>21</u>	Horigome, A., et al., "Tacrolimus-induced apoptosis and its prevention by interleukins in mitogen-activated human peripheral-blood mononuclear cells," <i>Immunopharmacology</i> 39:21-30, Elsevier Science B.V. (March 1998)
<i>an</i>	AS	<u>21</u>	Hsu, H., et al., "TRADD-TRAF2 and TRADD-FADD Interactions Define Two Distinct TNF Receptor 1 Signal Transduction Pathways," <i>Cell</i> 84:299-308, Cell Press (January 1996)
<i>an</i>	AT	<u>21</u>	Huang, D.C.S., et al., "Activation of Fas by FasL induces apoptosis by a mechanism that cannot be blocked by Bcl-2 or Bcl-x _L ," <i>Proc. Natl. Acad. Sci. USA</i> 96:14871-14876, National Academy Press (December 1999)

EXAMINER <i>Chin M. G.</i>	DATE CONSIDERED <i>8/2/09</i>
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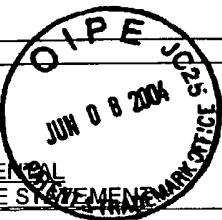
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<i>Cla</i>	AR	<u>22</u>	Huang, D.C.S., et al., "Bcl-2, Bcl-x _L and adenovirus protein E1B19kD are functionally equivalent in their ability to inhibit cell death," <i>Oncogene</i> 14:405-414, Stockton Press (January 1997)
	AS	<u>22</u>	Irmier, M., et al., "Direct physical interaction between the <i>Caenorhabditis elegans</i> 'death proteins' CED-3 and CED-4," <i>FEBS Lett.</i> 406:189-190, Elsevier Science B.V. (April 1997)
<i>✓</i>	AT	<u>22</u>	Irmier, M., et al., "Inhibition of death receptor signals by cellular FLIP," <i>Nature</i> 388:190-195, Macmillan Publishers, Ltd. (July 1997)

EXAMINER <i>Clay M. Leff</i>	DATE CONSIDERED <i>8/2/04</i>
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<i>Cu</i>	AR	<u>23</u>	Karin, M., and Lin, A., "NF- κ B at the crossroads of life and death," <i>Nat. Immunol.</i> 3:221-227, Nature Publishing Group (March 2002)
<i>Cu</i>	AS	<u>23</u>	Kelliher, M.A., et al., "The Death Domain Kinase RIP Mediates the TNF-Induced NF- κ B Signal," <i>Immunity</i> 8:297-303, Cell Press (March 1998)
<i>AT</i>	AT	<u>23</u>	Lindner, H., et al., "Peripheral Blood Mononuclear Cells Induce Programmed Cell Death in Human Endothelial Cells and May Prevent Repair: Role of Cytokines," <i>Blood</i> 89:1931-1938, American Society of Hematology (March 1997)

EXAMINER <i>Chris M. Hall</i>	DATE CONSIDERED <i>8/2/04</i>
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<i>Ar</i>	AR	<u>24</u>	Lotem, J., and Sachs, L., "Hematopoietic Cytokines Inhibit Apoptosis Induced by Transforming Growth Factor β 1 and Cancer Chemotherapy Compounds in Myeloid Leukemic Cells," <i>Blood</i> 80:1750-1757, American Society of Hematology (1992)
<i>Ar</i>	AS	<u>24</u>	Lotem, J., and Sachs, L., "Interferon- γ inhibits apoptosis induced by wild-type p53, cytotoxic anti-cancer agents and viability factor deprivation in myeloid cells," <i>Leukemia</i> 9:685-692, Stockton Press (1995)
<i>Ar</i>	AT	<u>24</u>	MacFarlane, M., et al., "Identification and Molecular Cloning of Two Novel Receptors for the Cytotoxic Ligand TRAIL," <i>J. Biol. Chem.</i> 272:25417-25420, American Society for Biochemistry and Molecular Biology, Inc. (October 1997)

EXAMINER <i>Clay M. M.</i>	DATE CONSIDERED <i>8/12/04</i>
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<i>cur</i>	AR	<u>25</u>	Muzio, M., et al., "FLICE, a Novel FADD-Homologous ICE/CED-3-like Protease, Is Recruited to the CD95 (Fas/APO-1) Death-Inducing Signaling Complex," <i>Cell</i> 85:817-827, Cell Press (June 1996)
<i>cur</i>	AS	<u>25</u>	Muzio, M., et al., "IRAK (Pelle) Family Member IRAK-2 and MyD88 as Proximal Mediators of IL-1 Signaling," <i>Science</i> 278:1612-1615, American Association for the Advancement of Science (November 1997)
<i>cur</i>	AT	<u>25</u>	Newton, K., et al., "A dominant interfering mutant of FADD/MORT1 enhances deletion of autoreactive thymocytes and inhibits proliferation of mature T lymphocytes," <i>EMBO J.</i> 17:706-718, Oxford University Press (February 1998)

EXAMINER *Chris M. Kelly* DATE CONSIDERED *8/2/04*

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<i>Cu</i>	AR	<u>26</u>	Newton, K., et al., "FADD/MORT1 regulates the pre-TCR checkpoint and can function as a tumour suppressor," <i>EMBO J.</i> 19:931-941, Oxford University Press (March 2000)
<i>↓</i>	AS	<u>26</u>	Newton, K., et al., "Effects of a dominant interfering mutant of FADD on signal transduction in activated T cells," <i>Curr. Biol.</i> 11:273-276, Elsevier Science, Ltd. (February 2001)
<i>↓ Cu</i>	AT	<u>26</u>	Newton, K., and Strasser, A., "Ionizing Radiation and Chemotherapeutic Drugs Induce Apoptosis in Lymphocytes in the Absence of Fas or FACC/MORT1 Signaling: Implications for Cancer Therapy," <i>J. Exp. Med.</i> 191:195-200, Rockefeller University Press (January 2000)

EXAMINER *John M. Lee*DATE CONSIDERED *8/2/04*

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Ar</i>	AR	<u>27</u>	O'Conner, L., et al., "Fas, p53, and Apoptosis," <i>Science</i> 284:1431b, American Association for the Advancement of Science (May 1999)
<i>Ar</i>	AS	<u>27</u>	O'Conner, L., et al., "CD95 (Fas/APO-1) and p53 Signal Apoptosis Independently in Diverse Cell Types," <i>Cancer Res.</i> 60:1217-1220, American Association for Cancer Research (March 2000)
<i>Ar</i>	AT	<u>27</u>	Odaka, C., et al., "Immunosuppressant deoxyspergualin induces apoptotic cell death in dividing cells," <i>Immunol.</i> 95:370-376, Blackwell Science, Ltd. (November 1998)

EXAMINER <i>Ar</i>	DATE CONSIDERED <i>8/2/04</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449		ATTY. DOCKET NO. 188.131000AEKS/EJH/M-M	APPLICATION NO. 10/005,842
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		FIRST NAMED INVENTOR et al.	
		MAILING DATE December 7, 2001	ART UNIT 1646

U.S. PATENT DOCUMENTS

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Ch</i>	AR	28	Pan, G., et al., "TRUNDD, a new member of the TRAIL receptor family that antagonizes TRAIL signalling," <i>FEBS Lett.</i> 424:41-45, Elsevier Science B.V. (March 1998)
<i>↓</i>	AS	28	Screaton, G.R., et al., "LARD: A new lymphoid-specific death domain containing receptor regulated by alternative pre-mRNA splicing," <i>Proc. Natl. Acad. Sci. USA</i> 94:4615-4619, National Academy Press (April 1997)
<i>↓</i>	AT	28	Shadmehr, R., and Holcomb, H.H., "Neural Correlates of Motor Memory Consolidation," <i>Science</i> 277:821-825, American Association for the Advancement of Science (August 1997)

EXAMINER	<i>Mark</i>	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		

FORM PTO-1449		ATTY. DOCKET NO. 1088.131000AEKS/EJH/M-M		APPLICATION NO. 10/005,842
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	AP						Yes No

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<i>CR</i>	AR	<u>29</u>	Simonitsch, I., and Krupitza, G., "Autocrine self-elimination of cultured ovarian cancer cells by tumour necrosis factor α (TNF- α)," <i>Br. J. Cancer</i> 78:862-870, Nature Publishing Group on behalf of Cancer Research, UK (October 1998)
<i>AS</i>	AS	<u>29</u>	Smith, K.G.C., et al., "CrmA expression in T lymphocytes of transgenic mice inhibits CD95 (Fas/APO-1)-transduced apoptosis, but does not cause lymphadenopathy or autoimmune disease," <i>EMBO J.</i> 15:5167-5176, Oxford University Press (October 1996)
<i>AT</i>	AT	<u>29</u>	Strasser, A., et al., "Bcl-2 and Fas/APO-1 regulate distinct pathways to lymphocyte apoptosis," <i>EMBO J.</i> 14:6136-6147, Oxford University Press (1995)

EXAMINER <i>Chen M. H.</i>	DATE CONSIDERED <i>8/2/04</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

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FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTCIVIL DOCKET NO.
101488.131000AEKS/EJH/M-MAPPLICATION NO.
10/005,842FIRST NAMED INVENTOR
Ni et al.FILING DATE
December 7, 2001ART UNIT
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

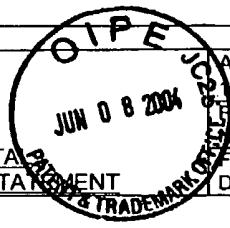
<i>Ar</i>	AR	<u>30</u>	Thome, M., et al., "Viral FLICE-inhibitory proteins (FLIPs) prevent apoptosis induced by death receptors," <i>Nature</i> 386:517-521, Macmillan Publishers, Ltd. (April 1997)
<i>Ar</i>	AS	<u>30</u>	Villunger, A., et al., "Fas Ligand, Bcl-2, Granulocyte Colony-Stimulating Factor, and p38 Mitogen-activated Protein Kinase: Regulators of Distinct Cell Death and Survival Pathways in Granulocytes," <i>J. Exp. Med.</i> 192:647-657, Rockefeller University Press (September 2000)
<i>Ar</i>	AT	<u>30</u>	Villunger, A., et al., "Fas Ligand-Induced c-Jun Kinase Activation in Lymphoid Cells Requires Extensive Receptor Aggregation But Is Independent of DAXX, and Fas-Mediated Cell Death Does Not Involve DAXX, RIP, or RAIDD," <i>J. Immunol.</i> 165:1337-1343, American Association of Immunologists (August 2000)

EXAMINER <i>Chen M. K.</i>	DATE CONSIDERED <u>8/2/04</u>
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FORM PTO-1449

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT



ATTY. DOCKET NO.
1488.131000AEKS/EJH/M-M
FIRST NAMED INVENTOR
Sai et al.

APPLICATION NO.
10/005,842

FILING DATE
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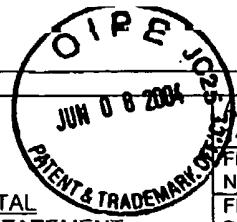
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<i>Chu</i>	AR	<u>31</u>	Walczak, H., et al., "TRAIL-R2: a novel apoptosis-mediating receptor for TRAIL," <i>EMBO J.</i> 16:5386-5397, Oxford University Press (September 1997)
	AS	<u>31</u>	Watanabe-Fukunaga, R., et al., "Lymphoproliferation disorder in mice explained by defects in Fas antigen that mediates apoptosis," <i>Nature</i> 356:314-317, Macmillan Publishers, Ltd. (1992)
<i>✓</i>	AT	<u>31</u>	Wong, B.B., et al., "TRANCE Is a Novel Ligand of the Tumor Necrosis Factor Receptor Family That Activates c-Jun N-terminal Kinase in T Cells," <i>J. Biol. Chem.</i> 272:25190-25194, American Society for Biochemistry and Molecular Biology, Inc. (October 1997)

EXAMINER *Chu M. L.* DATE CONSIDERED *2/2/04*

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1488.131000AEKS/EJH/M-MAPPLICATION NO.
10/005,842

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<i>Chu</i>	AR	32	Yoshida, T., et al., "Rapid B cell apoptosis induced by antigen receptor ligation does not require Fas (CD95/APO-1), the adaptor protein FADD/MORT1 or CrmA-sensitive caspases but is defective in both MRL-+/+ and MRL-lpr/lpr mice," <i>Int. Immunol.</i> 12:517-526, Japanese Society for Immunology (April 2000)
	AS	32	Zou, W., et al., "Administration of Interleukin 13 to Simian Immunodeficiency Virus-Infected Macaques: Induction of Intestinal Epithelial Atrophy," <i>AIDS Res Hum Retroviruses</i> 14:775-793, Mary Ann Liebert, Inc. (June 1998)
<i>Chu</i>	AT	32	European Search Report for European Application No. EP 00 93 0329 mailed on February 6, 2004, Munich, Germany

EXAMINER *Chu M. bz* DATE CONSIDERED *6/2/04*

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Cr</i>	AR	<u>33</u>	Copy of co-pending U.S. Application No. 10/648,825, inventors Ni et al., filed August 27, 2003, now US Published Patent Application No. 2004/0136951.
<i>Cr</i>	AS	<u>33</u>	Copy of co-pending U.S. Application No. 10/774,622, inventors Ni et al., filed February 10, 2004, now US Published Patent Application No. 2004/0141952.
	AT		

EXAMINER	<i>Clair M. K.</i>	DATE CONSIDERED <u>6/2/04</u>
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